IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Goddard et al. (as amended)

Appl. No. : 10/036,063

Filed: December 26, 2001

For : ANTIBODIES TO POLYPEPTIDES THAT

INDUCE CELL PROLIFERATION (as

amended)

Examiner : Kolker, Daniel E.

Group Art Unit : 1649

DECLARATION UNDER 37 CFR §1.131

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

We declare and state as follows:

- 1. We are the inventors of the invention claimed in the above-captioned patent application.
- 2. During the time period in which we participated in the events and activities described herein, we were employed by Genentech, Inc., the assignee of the above-captioned application.
- 3. All of the events and activities described herein were performed by us personally, or by others at our direction as part of our duties as employees of Genentech, Inc.
- 4. The claimed antibodies and the proteins to which the claimed antibodies bind were conceived and reduced to practice in the United States prior to November 10, 1999 as described below.
- 5. Prior to November 10, 1999, we conceived of the invention claimed in the above-captioned patent application. This is demonstrated by the disclosure set forth in U.S. Provisional Patent Application No. 60/130,359, filed April 21, 1999, which describes the nucleic acid of SEQ ID NO: 56, the polypeptide of SEQ ID NO: 57, and the claimed antibodies to SEQ ID NO: 57. In addition, the attached sequence printout (Exhibit A), which was generated prior to November 10, 1999, shows the complete sequence of the nucleic acid having the sequence of SEQ ID NO: 56. The attached printout also shows the complete sequence of the polypeptide which has the sequence of SEQ ID NO: 57, to which the claimed antibodies bind. As evidenced by the provisional application and the sequence printout, we were in possession of the complete nucleic acid sequence, the complete amino acid sequences, and antibodies that bind to SEQ ID NO: 57 prior to April 21, 1999.

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6. The date deleted from Exhibit A is prior to November 10, 1999. This date was redacted pursuant to M.P.E.P. § 715.07. The date that remains is the date the report was printed, April 28, 2005.

- 7. After the initial experiments resulting in the sequences listed in the attached printout, we diligently reduced to practice the polypeptides to which the claimed antibodies bind by working to express and purify the encoded polypeptide and to run it systematically through many assays. The cDNA was deposited with the American Type Culture Collection (ATCC) on April 20, 1999 and assigned ATCC no. 203948. The protein of interest was assigned a "protein inventory number" (e.g., PIN1205-1), and this protein is the polypeptide having the sequence of SEQ ID NO:57, and is encoded by SEQ ID NO: 56.
- 8. Exhibit B shows that the protein lot designated PIN1205-1 was delivered to James Pan on a date prior to November 10, 1999 in order to perform assay ASY92, called "Mouse Mesangial Cell proliferation Assay." Also, as shown in Exhibit B, the assay was completed on a date prior to November 10, 1999. Exhibit B also shows that the tested polypeptides tested positive ("All Positives"), thereby confirming the ability of the encoded polypeptide to induce mesangial cell proliferation. Thus, SEQ ID NO: 57 and antibodies that bind thereto were reduced to practice on a date prior to November 10, 1999.
- 9. The dates deleted from Exhibit B all are prior to November 10, 1999. These dates were redacted pursuant to M.P.E.P. § 715.07. The date that remains is the date the report was printed, April 28, 2005.

Appl. l	No.
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11. We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information or belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful statements may jeopardize the validity of the application or any patent issued thereon.

Ву: _	O Loddard	Date: 6/25/07
	Audrey Goddard	, ,
Ву:		Date:
	Paul J. Godowski	
Ву: _		Date:
	Austin L. Gurney	
Ву: _		Date:
	James Pan	
Ву:		Date:
-	Colin K. Watanabe	
Ву:		Date:
•	William I. Wood	

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By: _		Date:
	Audrey Goddard Paul J. Godowski	Date: 6 29 0)
	Austin L. Gurney	Date:
Ву:	James Pan	Date:
Ву:_	Colin K. Watanabe	Date:
Ву: _	William I. Wood	Date:

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By:_	A. J. C. 11. 1	Date:
, –	Audrey Goddard	
Ву: _	Paul J. Godowski	Date:
By:	Austin L. Gurney	Date: /// 17
Ву: _	James Pan	Date:
Ву: _	Colin K. Watanabe	Date:
Ву: _	William I. Wood	Date:

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By: _		Date:
•	Audrey Goddard	
Ву: _		Date:
	Paul J. Godowski	
By: _		
	Austin L. Gurney	
Ву: _	JH	Date: June 22/07
	James Pan	
Ву: _		Date:
	Colin K. Watanabe	
By:_		Date:
-	William I. Wood	

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Ву: _		Date:
	Audrey Goddard	
Ву: _		Date:
	Paul J. Godowski	
By: _		Date:
	Austin L. Gurney	
By: _		Date:
	James Pan	f t
By: _	Colin K Watanahe	Date: 6/27/2007
	Colin K. Watanabe	() '
By: _		Date:
	William I. Wood	

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By:		Date:
•	Audrey Goddard	
By:	Paul I Cadamak	Date:
	Paul J. Godowski	
By:		Date:
	Austin L. Gurney	
By:		Date:
•	James Pan	
By:		Date:
	Colin K. Watanabe	
By:	William & Don	Date: 6/25/07
	William I. Wood	

EXHIBIT A

[DNA92234], sheldens >Sequence confirmed by phredphrap >Thursday, April 28, 2005 >887 Sites [All Sites] >DNA92234 [Full] > Lib309

thaI

nlaIII

fnu4HI/bsoFI hpy18 1 TAGGTGACAC TATAGAAGAG CTATGACGTC GCATGCACGC GTACGTAAGC TCGGAATTCG GCTCGAGGAA TGAATACCTC CGAAGCCGCT TTGTTCTCCA ATCCACTGTG ATAICTTCTC GATACTGCAG CGTACGTGCG CATGCATTCG AGCCTTAAGC CGAGCTCCTT ACTTATGGAG GCTTCGGCGA AACAAGAGGT hpy1881 acil mnll aval[M.taqI-] tsp509I[M.ecoRI-] mnll paeR7I taqı xhoI tliI smlI ecoRI hphi sfci earl/ksp6321 hpy991 hpyCH4V csp6i aluI apoi hpy188I aatII cac8I aflIII maeII/hpyCH4IV maeII/hpyCH4IV bsiWI/splI fnuDII/mvnI bstUI tail hinlI/acyI cac8I bsaAI bsh1236I ahall/bsaHI mlul rsal Idds nspHI Idsu aluI nboII. sapī

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dpnI[dam+]

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bstYI/xhoII bamHI bslI

hpy188III alwI[dam-]

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bsmFI mnlI hinfI

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201 IGGGACTCCC TCTGCCACAT TTTTGGAGG TTGGGAAAGT TGCTAGAGGC TTCAGAACTC CAGCCTAATG GATCCCAAAC TCGGGAGAAT GGCTGCGTCC ACCUTGAGGG AGACGGIGTA AAAAACCTCC AACCTTTCA AGGATCTCCG AAGTCTTGAG GTCGGATTAC CTAGGGTTTG AGCCCTCTTA CCGACGCAGG

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bsp1286[M.aluI-] bsiHKAI hpy188I

banII[M.aluI-] bmyI eco57I hpyl88I eco57I mnlI E N

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401 ATCAGGATGA ATTIGTGCAG ACGCTGAAGG AGTGGGTGGC CATCGAGAGC GACTCTGTCC AGCCTGTGCC TCGCTTCAGA CAAGAGCTCT TCAGAATGAT TAGTCCTACT TAAACACGTC YGGGACTTCC TCACCCACCG GTAGCTCTCG CTGAGACAGG TCGGACACGG AGCGAAGTCT GTTCTCGAGA AGTCTTACTA Ω, > [x4 46

GSeqEdit, DNA92234 [Full], page 3

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501 GCCGTGCT GCGGACACGC TGCAGCGCCT GGGGCCCGT GTGCCTCGG TGGACATGGG TCCTCAGCAG CTGCCCGATG GTCAGAGTCT TCCAATACCT CCGGCACCGA CGCCTGTGCG ACGTCGCGGA CCCCCGGGCA CACCGGAGCC ACCTGTACCC AGGAGTGGTC GACGGGCTAC CAGTCTCAGA AGGTTATGGA

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fokī cfrī bsrī	dpnI[dam+] nlaIV	nlaïV	cfri	maeII/hpyCH4IV	bssKI
bstF5I haeIII/pall	alwI[dam-] banI		mwoI bceAl	btrI hpvCH4V	bsaJI

601 CCCGTCATCC TGCCGAACT GGGGAGGAI CCCACGAAAG GCACCGTGTG CTTCTACGGC CACTTGGACG TGCAGCCTGC TGACCGGGGC GATGGGTGGC GGGCAGTAGG ACCGCTTGA CCCTCGCTA GGGTGCTTTC CGTGGCACAC GAAGATGCCG GTGAACCTGC ACGTCGGACG ACTGGCCCCG CTACCCACCG G æ \Box α × 112 P V I

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			mcrI	bseRI bsiEI	GCGACCG
			mnli mcrI	bseRI	TTATGGACGA GGA
			accī	Ilm	ACGGAGGTAG ACGGGAAACT
		sau96I	nlaIV	avaII	701 rcacegacce crarerecre

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901 AAAGAAAAGG ACCGATTCIT CICTGGTGTG GACTACATTG TAATTTCAGA TAACCTGTGG ATCAGCCAAA GGAAGCCAGC AATCACTTAT GGAACCCGG cac8I

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dpn1[dam+] ea

dpnII[dam-]

bstF51 hpy188111 IHdsq rcal sfaNI ddel nlaIV psbCNI hpyCH4V apyI[dcm+] bsaI hphi

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CCTTGTCGAT GAAGTACCAC CTCCACTITA CETCTCTGGT CCTAAAAGTG AGTCCTTGGA AACCACCGTA GGAAGTACTT GGTTACCGAC TAGACCAACG 1001 GGAACAGCIA CTTCATGGTG GAGGTGAAAT GCAGAGACCA GGATTTTCAC TCAGGAACCT TTGGTGGCAT CCTTCATGAA CCAATGGCTG ATCTGGTTGC

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1101 TCTTCTCGGT AGCCTGGTAG ACTCGTCTGG TCATATCCTG GTCCCTGGAA TCTATGATGA AGTGGTTCCT CTTACAGAAG AGGAAATAAA TACATACAAA AGAAGAGCCA TCGGACCAIC TGAGCAGACC AGTAIAGGAC CAGGGACCIT AGAIACIACT ICACCAAGGA GAAIGICITC ICCTTTAITT ATGIAIGITI

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			scrFI[dcm-]	pspGI] mvaI	ecoRII[dcm-]		dsaV[dcm-]	bstNI	bssKI[dcm-]	apyI[dcm+]
		thal	fnuDII/mvnI	Idin.	mnli bstUI[M.hhaI-] mvaI	sau3AI hhaI/cfoI	<pre>mbol/ndelI[dam-][M.taqI-]</pre>	dpnII[dam-]	dpnI[dam+]	alwI[dam-] bsh1236I	nlalli taq1[dam-]

1301 CATCTCTTTC TATTCATGGG AICGAGGGG CGTTTGATGA GCCTGGAACT AAACAGTCA TACCTGGCCG AGTTATAGGA AAATTTTCAA TCCGTCTAGT GTAGAGAAAG ATAAGTACCC TAGCTCCGG GCAAACTACT CGGACCTTGA TTTTGTCAGT ATGGACCGGC TCAATATCCT TTTAAAAGTT AGGCAGATCA R L V (C) × ტ **⊢** U g ы Ü Ħ H ы С 346

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		ď	CATC	STAG	ы :::
			CGA(GCT(ᅜ
tsp45I	maelli	-	SACA	CTGT	E
ر د رم	ma	hphI	AGGT	TCCA	>
			A AC	T TG	Ø
			SAAA	TLL	F4
			3GTG(CCAC	>
		aciI	<u>ن</u>	٠ ا	4
			GIC	CAG	(V)
			ATG	TAC	۸ .
nlaIII		II	TG A	AC 1	379 P H M N V S A
n]	mslI	mnli mslī	CACA	GTGI	Σi Ei
	. –	mnl	CCCT	GGGA	₽4
			1401 CCCTCACATG AATGTGTGTG CGGTGGAAAA ACAGGTGACA CGACATCTTG AAGATGTGTT CTCCAAAAGA AATAGTTCCA ACAAGATGGT TGTTTCCATG	•	379

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	sau	oqui	dpn	uďp	alw	CAGATATGA	GTCTATACT	D M I	
		yCH4III				TGGAACAGAA C	TGAGAICCTG ATGTGGGCAC CTAACGITTA TAACTACTGT GGGTCATAGA GCGTCGTTTT TCTCGCTAGT CTTGTCACAA ACCTTGTCTT GGTCTATACT	AN IDDT QYL AAK RAIR TVF GTE PDMI	
TAPES.	hpy188I	sau3AI bst4CI/hpyCH4III	mboI/ndeII[dam-]	dpnII[dam-]	dpnI[dam+]	GAACAGTGIT	CTTGTCACAA	T V E	
	Иdи	sau3A	/Iodm] Iuďp	GAGCGATCA	CTCGCTAGT	AIR	
		Iowm	tseI	fnu4HI/bsoFI	phvI	GCAGCAAAA A	CGTCGTTTT T	A A K R	
					Izsq	CCCAGIAICIC	GGGTCATAGA G	ı x o	
						ATTGATGACA	TAACTACTGT	I D D T	
				btgI/bstDSI sspI	bsaJI hpyCH4V	GATTGCAAAT	CTAACGTTTA	I A N	
			dsaī	btgI/b	bsaJI	TACACCCGFG	ATGTGGGCAC	н Р м	,
,			rmal	maeI	bfaI	1501 ACTCTAGGAC TACACCCGFG GATTGCAAAT ATTGATGACA CCCAGTATCT CGCAGCAAAA AGAGCGATCA GAACAGTGTT TGGAACAGAA CCAGATATGA	TGAGATCCTG	412 T L G L H P W	

sau3AI

mboI/ndeII[dam-]

dpnII[dam-]

sau3AI

fokI dpnI[dam+]

pspGI mboI/ndeII[dam~] scrFI[dcm-]

DStF5I

mvaI scrFI[M.hpall-]

dpnII[dam-]

ecoRII[dcm-] dsaV[dcm-] alwI[dam-] nlaIV

mspAll/nspBII tsp509I bstNI dpnI[dam+] bssKI[dcm-] tsp509I bstYI/xhoII bamHI

apyI[dcm+]

munI/mfeI

alwI[dam-]

bssKI

dsaV

hpall

Iďsw

ncil

1601 TCCGGGATGG ATCCACCATT CCAATTGCCA AAATGTTCCA GGAGATCGTC CACAAGGCG TGGTGCTAAT TCCGCTGGGA GCTGTTGATG ATGGAGAACA AGGCCCTACC TAGGTGGTAA GGTTAACGGT TITACAAGGT CCTCTAGCAG GTGTTCTCGC ACCACGATTA AGGCGACCCT CGACAACTAC TACCTCTTGT

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> ₽ Д ď,

tseI

fnu4HI/bsoFI

mseI aluI

sau96I[M.haeIII-]

haeIII/pall aseI/asnI/vspI

1701 TTCCCAGAAT GAGAAAATCA ACAGGTGGAA CTACAIAGAG GGAACCAAAI TATTTGCTGC CTTTTTCTTA GAGATGGCCC AGCTCCAITA ATCACAAGAA AAGOGTOTTA CTCITTTAGT IGTOCACCIT GAIGTATCTC CCITGGITTA ATAAACGACG GAAAAGAAT CTCTACCGGG TCGAGGIAAT TAGIGITCIT tsp5091 bbvI mnli

T H [4]

sau3AI

mbol/ndell[dam-]

dpnII[dam~]

dpnI[dam+]

hpy188I

rmal maeī

> tspRI sau3AI

mbol/ndeII[dam-] hpy188I alwI[dam-]

bslI tfil mull lhgh

bslI

foki bfal

dpnII[dam~] dpn1[dam+]

maeI rmaI

bfaI

bstF51

fokI

bstFSI

csp6I

bfaI maeī rmaI

hpy188III

rsaI

tsp509I apol

hinfI[M.hphI~]

1801 CCTTCTAGTC TGATCTGATC CACTGACAGA TTCACCTCCC CCACATCCCT AGACAGGGAT GGAATGTAAA TATCCAGAGA ATTTGGGTCT AGTATAGTAC GGAAGATCAG ACTAGACTAG GTGACTGTCT AAGTGGAGGG GGTGTAGGGA TCTGTCCCTA CCTTACATTT ATAGGTCTCT TAAACCCAGA TCATATGTG

hpyCH4V sau96I nlaIV avall

bsgI IMndď

eco01091/drall

tspRI tru9I

msel bsmFI

btsI

1901 ATTITCCCTT CCATITAAAA TGTCTTGGGA TATCTGGATC AGTAATAARA TATTTCAAAG GCACAGATGT TGGAAATGGT TTAAGGICCC CCACTGCACA TAAAAGGGAA GGTAAATITI ACAGAACCCT ATAGACCTAG TCATTATITT ATAAAGTITC CGTGTCTACA ACCTTTACCA AATTCCAGGG GGTGACGTGT

idss

alwI[dam-]

ecoRV

ahaIII/draI

tru91 mseī

hpy188III

mboI/ndeII[dam-]

sau3AI

dpnII[dam-] dpnI[dam+]

scrFI[dcm-]

pspGI

mvaI

ecoRII[dcm-]

dsaV[dcm-]

bstNI

bssKI[dcm-]

fnu4HI/bsoFI

tseI

tseI

cac8I

Ivdd

Ivad

smll

fnu4HI/bsoFI

tfiI apyI[dcm+] bslI

2001 CCTTCCTCAA GTCATAGCTG CTTGCAGCAA CTTGATTTCC CCAAGTCCTG TGCAATAGCC CCAGGATTGG ATTCCTTCCA ACCTTTAGC ATATCTCCAA hinfI hpyCH4V bsaJI hpyCH4V aluI

GGAAGGAGTT CAGTATCGAC GAACGTCGTT GAACTAAAGG GGTTCAGGAC ACGTTATCGG GGTCCTAACC TAAGGAAGGT TGGAAAATCG TATAGAGGTT

tsp45I sau96I

bssSI avall hgiAI/aspHI PpuMI

eco01091/draII hpy188III

bsp1286 bsiHKAI smlI maeI rmal

> hpaII bsaWI

tsp509I

hpyCH4V

Idsm

mboI/ndeII[dam-] dpnII[dam-] dpnI[dam+]

sau3AI

bmyI maeIII mnlI bfaI

bstF5I fokī

2101 CCTTGCAATT TGATTGGCAT AATCACTCCG GTTTGCTTTC TAGGTCCTCA AGTGCTCGTG ACACATAATC ATTCCATCCA ATGATCGCCT TTGCTTTACC GGAACGTTAA ACTAACCGTA TTAGTGAGGC CAAACGAAAG ATCCAGGAGT TCACGAGCAC TGTGTATTAG TAAGGTAGGT TACTAGCGGA AACGAAATGG

tru9I

bsmAI mseI

bsaI aseI/asnI/vspI TGAGAAAGCA AAATAGAATA AITAPITITA CAACCAGAGG TGGTGACNCA GGGTITITIT TITITITT TYTTTTT TITTTTTT TITTTTTT TITTTTTT

scrři[M.hpaII-]

ncil

mspī

hpall

dsaV

bssKI

sau96I rsaI

rsrII/cspI xmal/pspAI

nlaIV mrol smaI

kpnI hpyCH4V scrFI[M.hpaII-] cpoI

aciI

banl sfcI hpy188III csp61 IIWdsq dsaV taqI nciI salI fnu4HI/bsoFI haeIII/palI

hincII/hindII[M.taqI-] avaII[M.hpaII-] sacI mcrI

asp718 eagI/xmaIII/eclXI aluI accI[M.taqI-] tru9I mspI

bssKI asel/asnI/vspI acc65I cac8I hgiAI/aspHI[M.aluI-] mseI bspEI cfr10I/bsrFI ecl136II rmaI cfrī eaeI

pstI bsp1286[M.aluI-] xmnI tsp509I bsaWI maeI bsiEI

sse8387I bsaJI tsp509I bsaWI ageI bsiHKAI bfaI notI

csp6I aluI bmyl hpy991 aval[M.hpaII-] hpaII mspI bspMI accili hpali sbfi banII[M.aluI-] asp700 speI fnu4HI/bsoFI acir

TITITITI TITITITI TITICCCCCCC GCGCTGAIC ACTCGAGCAG CIGGGCCCTT AATTAAGGCC IGGCCAIGGA CGICCGCAIG GICGAAAGGG

2301 AAAAAAAA AAAAAAAA AAAGGGCGGC CGCCGACTAG TGAGCTCGTC GACCCGGGAA ITAATTCCGG ACCGGTACCT GCAGGCGTAC CAGCTTTCCC

pleI

mlyI

hinfI

2401 TATAGTGAGT CGTATTAGAG CTTGG

ATAICACTCA GCATAAICTC GAACC

2425
length:
۸

acc651(GGTACC): acc1(GTMKAC):	1295 2374 727 1117 2348
accIII(TCCGGA):	2366
acyl (GRCGYC):	25 370 1920 1976 2520
afill (ACRYGT):	37
ageI(ACCGGT):	2371
ahali (GRCGYC):	25
ahaIII (TTTAAA) :	1914
aluI (AGCT) :	19 48 110 485 569 1006 1680 1781 2016 2343 2392 2419
alw261 (CAGNNNCTG):	418 523 565
alwi (GGATCNNNN):	270 271 628 785 959 1319 1599 1609 1610 1817 1936
alwni (Cagnnnctg) :	418 523 565
apaI (GGGCCC):	533
apol (RAATTY) :	54 409 841 1249 1381 1879
apyl (CCWGG):	528 609 813 882 1038 1113 1137 1144 1342 1363 1638 206
sel(ATTAAT):	1787 2219 2360
asnī (ATTAAT) :	1787 2219 2360
asp700 (GAANNNTTC) :	375 1159 1379 1469 2358
asp718 (GGTACC):	1295 2374
aspHI (GWGCWC):	484 2152 2342
aspi (Gacnnngic) :	451
avaI (CYCGRG) :	62 280 995 2353
avaII (GGWCC);	559 705 909 1140 1985 2143 2369
ball (TGGCCA):	437
bamHI (GGATCC):	270 1609
bani (GGYRCC);	640 1295 2374 ·
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bspei (TCCGGA):	
bspHI (TCATGA):	1074
bspMI (Accrec):	2377
bspMII (TCCGGA):	2366
bsrFI(RCGGY):	2371
bsrI (ACTGGN):	384 618 1542
bsski (ccngg):	139 360 528 609 684 813 882 995 996 1038 1113 1137 1144 1239 1342
	1363 1602 1638 2061 2353 2354
bssSI (CTCGTG):	2155
bst4CI(ACNGT):	643 1354 1573
bstapi (GCANNNNTGC):	641
bstDSI (CCRYGG):	503 1516
bstF51 (GGATG):	405 606 857 1068 1203 1605 1844 1857 2175
bstnI (ccwGG):	528 609 813 882 1038 1113 1137 1144 1342 1363 1638 2061
bstul(GGGG);	38 331 1329
bstxi (ccannnnnigg):	260 1478
bstyi (RGATCY):	270 822 1609
btgI (CCRYGG):	503 1516
btr1(CACGTC):	199
bts1 (GCAGTGNN):	1992
cac8I (GCNNGC):	31 35 303 675 868 975 2020 2381
cfoI(GCGC);	330 364 525 800 1328 ·
cfr101 (RCCGGY):	2371
cfrI (YGGCCR):	437 500 611 657 1365 2327
cpol(CGGWCCG):	2368
csp61 (GTAC):	41 387 1296 1897 2375 2387
csp1(cggwccg):	2368
ddeI(CTNAG);	563 1050 1265 1767
dpnI (GATC) :	271 628 786 823 960 1090 1320 1566 1599 1610 1644 1812 1817 1937
	2103

dpnII(GATC):	271 628 786 823 960 1090 1320 1566 1599 1610 1644 1812 1817 1937
	2183
dral (TTTAAA):	1914
drall (RGGNCCY):	532 558 768 1984 2142
dralii (Cacnnngrg):	642
dsaI (CCRYGG):	503 1516
dsaV(CCNGG):	139 360 528 609 684 813 882 995 996 1038 1113 1137 1144 1239 1342
	1363 1602 1638 2061 2353 2354
eaeI (YGGCCR);	437 500 611 657 1365 2327
eagl (CGCCCG):	2327
earl (CTCTTCNNNN):	15 487 862 1100 1177
ecl136II(GAGCTC):	484 2342
eclXI(CGGCCG):	2327
eco571 (CTGAAG);	250 424 474 489 804
econi (cctnnnnagg) :	3968
eco01091 (RGGNCCY):	532 558 768 1984 2142 ·
ecoRI (GAATTC):	54
ecoRII (CCWGG):	528 609 813 882 1038 1113 1137 1144 1342 1363 1638 2061
ecoRV (GATATC):	1929
fnu4HI (GCNGC):	85 292 312 315 318 321 332 508 519 522 567 570 672 1235 1552 1756
	2017 2024 2326 2329
fnuDII (GGCG):	38 331 1329
foki (GGATG):	405 606 857 1068 1203 1605 1844 1857 2175
gsul (CTGGAG):	96 258 325 814 883 1290
haeII (RGCGCY):	363 524 799
haeIII (GGCC):	438 501 534 543 612 658 769 1366 1776 2328
hgaI (GACGC):	295 420
hgiAI (GWGCWC);	484 2152 2342
hhaI (GCGC):	330 364 525 800 1328
hinPI(GCGC):	330 364 525 800 1328

mspAlI(CMGCKG):	568 1672
mspI(CCGG):	139 361 684 996 1227 1239 1602 2128 2354 2367 2372
mun1 (CAATTG).:	1622
mval (CCWGG):	528 609 813 882 1038 1113 1137 1144 1342 1363 1638 2061
mvnI (CGCG):	38 331 1329
mwol (GCNNNNNNGC):	303 312 315 321 357 502 535 641 650 793 802 1555 1665
ncil(CCSGG);	139 360 684 995 996 1239 1602 2353 2354
ndeII(GATC):	271 628 786 823 960 1090 1320 1566 1599 1610 1644 1812 1817 1937
	2183
nlaIII(CATG):	32 199 336 555 1014 1075 1315 1407 1497
nlaIV(GGNNCC):	270 532 533 558 640 705 991 1054 1140 1164 1295 1609 1741 1985 2374
not1(GCGGCCGC):	2326
nspBII(CMGCKG):	568 1672
nspHI(RCATGY):	31 335
nspI (RCATGY):	31 335
paeR7I (CTCGAG):	
pali (GGCC):	438 501 534 543 612 658 769 1366 1776 2328
pflfi(Gacnnngfc):	451
ple1 (GAGTCNNNN):	204 451 585 1120 1500 2407
ppuMI (RGGWCCY):	558 1984 2142
pshal (Gacningerc):	553
pspAI (CCCGGG):	995 2353
pspGI (CCWGG):	528 609 813 882 1038 1113 1137 1144 1342 1363 1638 2061
pspomi (GGGCCC):	533
pstI(CTGCAG):	520 2379
pvull (CAGCTG):	568
rcal(TCATGA):	1074
rmaI (CTAG):	243 1210 1216 1396 1504 1805 1849 1889 2140 2337
rsaI(GTAC):	41 387 1296 1897 2375 2387
rsili (CGGWCCG):	2368
gbess .	GSeqEdit, DNA92234 [Full], page 21

sacI (GAGCTC);	484 2342
sali (GrcGAC):	2348
sapi (GCTCTTCNNNN) :	15 486 1099
sau3AI (GATC):	271 628 786 823 960 1090 1320 1566 1599 1610 1644 1812 1817 1937
	2183
sau96I (GGNCC):	533 534 559 705 769 909 1140 1776 1985 2143 2369
sbfI(CCTGCAGG):	2378
scrFI (CCNGG):	139 360 528 609 684 813 882 995 996 1038 1113 1137 1144 1239 1342
	1363 1602 1638 2061 2353 2354
sfani(GCATC):	1067
sfcI (CTRYAG):	10 520 2379 2400
sfil (GGCCNNNNNGGCC):	534
smaI (CCCGGG):	995 2353
sml1 (CTYRAG):	62 2006 2147
snaBI(TACGTA):	42
speI (ACTAGT):	2336
sphi (GCATGC):	.31
spli(CGTACG):	40
sse8387I(CCTGCAGG);	2378
sspi (artatt) :	1528 1949
sstI(GAGCTC):	484 2342
taif (ACGT):	26 43 149 668
taqI(TCGA):	63 443 1259 1322 2349
tfil (GAWTC):	914 1148 1275 1829 2070
thaI (CGCG):	38 331 1329
tlii (crcsag):	62
tru91(TTAA):	175 1788 1915 1981 2220 2361
tsel(GCWGC):	292 312 315 318 321 508 519 522 567 570 672 1235 1552 1756 2017 2024
tsp45I(GTSAC):	4 180 1435 2158
tsp5091(AATT);	
GSeqB	GSeqEdit, DNA92234 [Full], page 22

tspRI (NNCAGTGNN);	1574 1821 1992 2243
tth111I(GACNNNGTC):	451
vspi (Attaat) :	1787 2219 2360
xbaI(TCTAGA);	1209
xhoI (CTCGAG);	62
xhoII (RGATCY) :	270 822 1609
xmaI(CCCGGG):	995 2353
xmaIII (CGCCG):	2327
xmrt (Gaanninging)	375 1150 1370 1860 1950

not found:

eco721 (CACGTG), eco811 (CCTNAGG), ehel (GGCGCC), esp31 (CGTCTC), esp1 (GCTNAGC), fse1 (GGCCGGCC), fsp1 (TGCGCA), hindll1 (AAGCTT), pmeI(GTTTAAAC),pmlI(CACGTG),ppul01(ATGCAT),psiI(TTATAA),psp14061(AACGTT),pvul(CGATCG),sacII(CCGCGG),sanDI(GGGWCCC), bsu36I (CCTNAGG), celli (GCTNAGC), clai (ATCGAT), drdi (GACNNNNNGTC), eam1105I (GACNNNNNGTC), ecil (GGCGGA), eco4711I (AGCGCT), ndel (CATATG), ngoMI (GCCGGC), nhel (GCTAGC), nrul (TCGCGA), nsil (ATGCAT), paci (TTAATTAA), pcil (ACATGT), pflMI (CCANNNNTGG), saul (CCTNAGG), scal (AGTACT), scel (TAGGGATAACAGGGTAAT), sexAl (ACCWGGT), sful (TTCGAA), sgfl (GCGATCGC), sgrAl (CRCCGGYG), begi (nnnnnnnnnnncgannnnnnngcnnnnnnnnnnnn), beivi (gratee), beli (tgatea), bfrbi (argeri), bfri (cttaag), blai (cetagg), hpaI (GTTAAC), kasI (GGCGCC), kspI (CCGCGG), mamI (GATNNNNATC), mstII (CCTNAGG), naeI (GCCGGC), narI (GGCGCC), ncoI (CCATGG) bsrDI (GCAATGNN), bsrGI (TGTACA), bssHII (GCGCGC), bst1107I (GTATAC), bstBI (TTCGAA), bstEII (GGTNACC), bstZ17I (GTATAC), bsmBI (CGTCTCNNNNN), bsmI (GAATGCN), bsp106 (ATCGAT), bsp1407I (TGTACA), bspCI (CGATCG), bspDI (ATCGAT), bsrBI (GAGCGG), aclI (AACGTT), afeI (AGCGCT), aflII (CTTAAG), ahdI (GACNNNNNGTC), alw441 (GTGCAC), apaLI (GTGCAC), ascI (GGCGCGCC), snol(GTGCAC), snol(GTGCAC), srfl(GCCCGGGC), sstll(CCGCGG), stul(AGGCCT), styl(CCWWGG), swal(ATTTAAAT),

EXHIBIT B

dwides # Find C New C Update ASSAUSTACE

ASY82

Assay Name - Mouse Messengial G88 proliferation Assay

Alas Name Mulkess Cell Prollf

Class Primary Status Retired

Formet 95 Well

Type Cell

Sample Requirements

Replicates 3

Fold DR Into Well 10 Fold

Assay Volume 0,1 mf

Dilutions 2

Volume Requested 0.03ml/well/conc

Protocol

Species Mouse

Purposo Screen SPDI proteins which can sumulate Messengtal Cell Profileration

On day 1: Mouse messangial cats are plated on a 56 west plate in Medicif 3:1 inhaline of Dubb.coo's modified Eagle's amedium said Ham's F12 medium. 85%, fatal bowine serum-5%- explaimented with 14mM hepsaj said gave overnight. On day 2: SPD? Protone are divided as a secum-five Media and added to the cells. On day 4: Afor 45 hours incubation-each well of the plate was added 20 µl of the Call Titer 96 Aqueous one solviton reagent (Promega) and colormes/no reaction wes allowed for 2 hours. The absorbance (3O) is now that the Call Spin are not a secum-5% explaiment at 440 plate.

Matrix Promaga kit for the assay-

Result Carculation replicated everage

Rosultinappretation. Any PIN that gives on absorbance reading which is 15% above the media control is considered a hit.

Rosult Culoff > 15 %

Comments

In Vivo: InVitro:

States Date Entered

Date Cenceled

Department, Endocrinology

Scientist James (Griobual Pag

Natebook D-

Assayers

ASY I DWA I DOM I EXP I EALI I FISI LIB I LOT I MAP I OLI I FRA I PRO I DVA I BNA I SRG I UNCI I XPT I YST Assel Xeneri Sagre

Lab Soloniist Weiguang Mao Biozrea Endocrinology Status Retired

Cancel Reason

GenneGenes Foedback

Fnd G New C Update

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Assay Viewer

SPIX Assays						Find Lots				I are fac Canada		
	ASYT Heat Heaneth Hypertrophy ASY2 Hear Adult Hypotrophy ASY3 Adgeode Lipotrai	aphy	33 135			AUPIN	1 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -		翮	1000 St. Color	PIN1205-1	
	ASY 4 theoret I topanesis ASYS Hippopolesis benediation all padentina ASYS Hippopolesis benediation Sunfwei ASYS Hippopolesis benediation Sunfwei ASYS Redutal Neuron Survival (5-8 dept criticis ASYS Endoblelle cet particis	ists m cell profferation at Survival alval (5-8 days catair feration				Show Lots for PIN 配 Number: 17205	ř <u>ě</u>					
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본 Al Positives 🖸 Verlied Positives <table-cell-rows> Panding</table-cell-rows>	։ 🖯 Բաժո՞ր		Cate Complete From				370	П				
				223		TANKS IN						
ASS	ASSAY RESULT LIST			HOW8 1 - 2012			Page 1 of 1		٠	Salest Page Page No. 1	羅	
ASY ASY ASY Name ASY Name ASY 32 Nu. Mess Cell Proff ASY 32 Nu Mess Cell Proff	PUREXEDNA PURIZIS PURIZIS	LOT2447 LOT2447	LOZ Nama Por PIN1205-1 PIN1205-1	Veriff	2000. 0.10 %	Conc Unit	Mens Set	UNCIPIS UNCIPIS	Protein Neme. Human DPKL 1915 IpG Human DPKL 1916 Ipg	Rate Olste	Date Secretaries	Comment
			SSY I DIVA DO	OOM EXR EAM ELS LIE LOT MAP OL PRO PRO PUR BNA Assect (Branch of Viewer Sequence Viewer Sequence Security Sec	SKE (EAM (ELS) UE LOT (MAP) OLI () Asero Viewet (Sedience Viewet (Sedie)	MAP OLI ERG Wet Gene Views	PRO PRO PUR PNA Jewat Geographes SA	IA ERC JUNSO XVII XSI SAGE	ılysı			
					č	Samuel Contract					•	

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